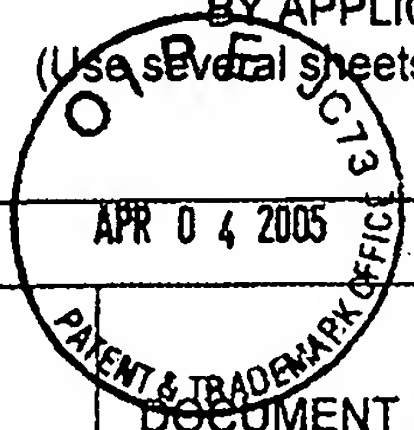


FORM PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P23697		Application No. 10/646,698	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Hiroshi NOMURA			
				Filing Date August 25, 2003		Group 2851	



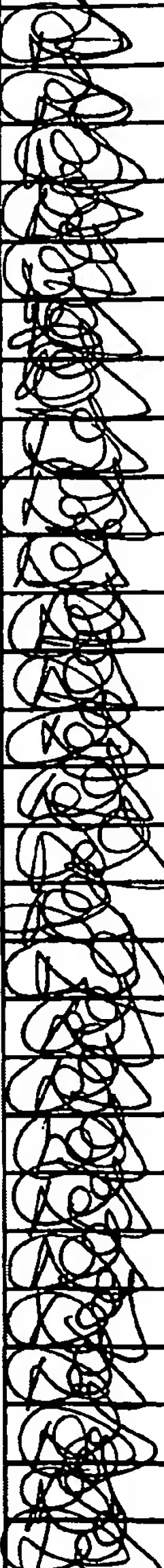
U.S. PATENT DOCUMENTS											
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
<i>CS</i>	4 7 9 1 4 4 1	12/13/88	NISHI et al.	{	S						
<i>CS</i>	4 4 5 1 1 2 9	05/29/84	IKARI et al.								
<i>a</i>	3 3 7 7 4 2 7	04/09/68	FISCHER								
<i>a</i>	5 7 1 5 4 8 2	02/03/98	WAKABAYASHI et al.								
<i>CS</i>	4 5 9 7 6 5 7	07/01/86	WAKABAYASHI et al.								
<i>a</i>	4 8 4 1 3 2 3	06/20/89	MINORU et al.								

FOREIGN PATENT DOCUMENTS											
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO.					
<i>a</i> 8 - 3 1 3 7 9 0	11/29/96	JAPAN	{	S							
<i>a</i> 6 - 2 3 0 2 6 3	08/19/94	JAPAN									
<i>a</i> 10 - 2 5 4 0 5 4	09/25/98	JAPAN									
<i>a</i> 2003 - 1 4 9 7 2 3	05/21/03	JAPAN									
<i>a</i> 2000 - 0 2 3 0 0 2	01/21/00	JAPAN									
<i>CS</i> 6 - 3 0 8 5 9 2	11/04/94	JAPAN									
<i>a</i> 7 - 1 9 9 0 1 9	08/04/95	JAPAN									
<i>a</i> 5 - 3 1 3 2 2 6	11/26/93	JAPAN									
<i>a</i> 7 - 2 9 5 0 5 0	11/10/95	JAPAN									
<i>a</i> 9 - 5 8 4 9	01/10/97	JAPAN									
<i>a</i> 61 - 1 3 3 9 3 3	06/21/86	JAPAN									

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
<i>a</i>	1 English Language Abstract of JP 8-313790.
<i>CS</i>	2 English Language Abstract of JP 6-230263.
<i>a</i>	3 English Language Abstract of JP 10-254054.
<i>a</i>	4 English Language Abstract of JP 2000-023002.
<i>a</i>	5 English Language Abstract of JP 6-308592.
<i>a</i>	6 English Language Abstract of JP 7-199019.
<i>a</i>	7 English Language Abstract of JP 5-313226.
<i>a</i>	8 English Language Abstract of JP 7-295050.
<i>CS</i>	9 English Language Abstract of JP 9-5849.
<i>a</i>	10 English Language Abstract of JP 61-133933.

EXAMINER <i>CS</i>	DATE CONSIDERED <i>Oct 14, 2005</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant Hiroshi NOMURA									
				Filing Date August 25, 2003		Group 2873							
U.S. PATENT DOCUMENTS													
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		4	6	4	3	5	5	4	02/17/87	OGAWA			
		4	7	7	1	3	0	3	09/13/88	MATSUMOTO et al.			
		4	8	8	7	1	0	7	12/12/89	NAKAMURA et al.			
		5	1	3	6	3	2	4	08/04/92	TSUBOI et al.			
		5	7	6	5	0	4	9	06/09/98	HASE et al.			
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	2002	/0	1	3	5	9	0	0	09/26/02	NOMURA et al.			
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	2002	/0	1	3	5	8	9	6	09/26/03	NOMURA et al.			
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2001	/0	0	1	9	4	5	8	09/06/01	NOMURA et al.				
	4	9	9	3	8	1	5	02/19/91	YAMAZAKI et al.				
	5	7	3	1	9	1	3	03/24/98	IMANARI				
	5	7	3	9	9	6	2	04/14/98	ASAKURA et al.				
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	5	5	8	7	7	5	4	12/24/96	KATAYAMA et al.				
	6	0	5	2	5	3	5	04/18/00	UNO				
EXAMINER <u>D. Gray</u>									DATE CONSIDERED <u>8/16/04</u>				
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		Filing Date August 25, 2003	Group 2873

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5 2 2 3 8 7 3	06/29/93	TSUBOI			
		5 0 8 6 3 1 2	02/04/92	TANAKA et al.			
		5 4 9 9 1 4 3	03/12/96	SAKAMOTO et al.			
		6 0 6 9 7 4 5	05/30/00	FUJII et al.			
		6 3 2 4 0 1 9	11/27/01	TAKANASHI et al.			
		5 4 8 5 3 1 5	01/16/96	NOMURA et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
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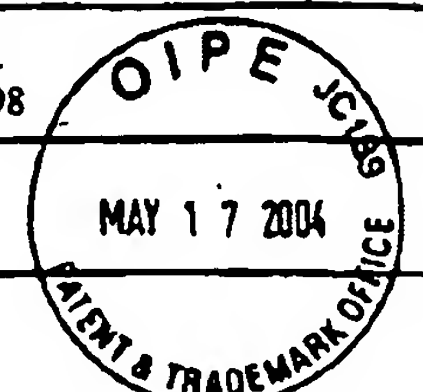
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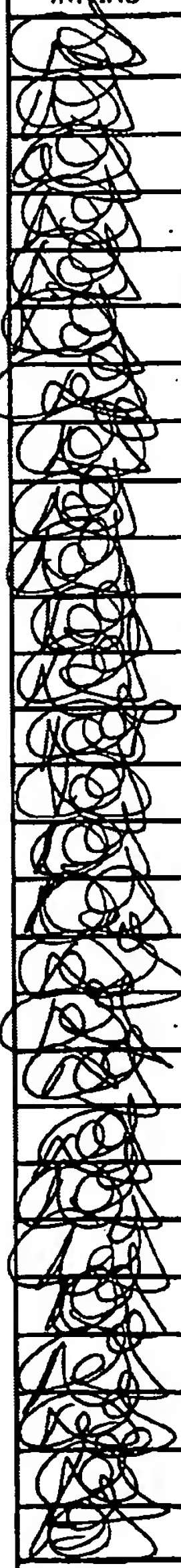
8/16/04

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U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
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		10	-	3	2	7	4	0	02/03/98	JAPAN			X	
	7	-	2	8	8	7	2	4	10/31/95	JAPAN			X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)														
	1	English Language Abstract of JP 58-10708.												
	2	English Language Abstract of JP 2003-207709.												
	3	English Language Abstract of JP 2002-277719.												
	4	English Language Abstract of JP 10-282394.												
	5	English Language Abstract of JP 58-162914.												
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U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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EXAMINER <u>D. Gray</u>	DATE CONSIDERED <u>8/16/04</u>
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